

Technics®

Compact Disc Player

SL-PG480A

Operating Instructions



COMPACT
disc
DIGITAL AUDIO



Dear Customer

Thank you for purchasing this product. For optimum performance and safety, please read these operating instructions carefully. Before connecting, operating or adjusting this product, please read these instructions completely. Please save this manual.

Table of Contents

Before Use

Precautions	3
Front Panel Controls	4
Connections	5
Concerning the Remote Control	6

Operations

Sequential Play Basic Play	7
Skip Function	8
Search Function	8
Direct Access Play	9
Random Play	9
Program Play	10

Convenient Functions

Repeat Function	12
Auto Cue Function	13
Output Level Control	14
Time Mode Selection	14
Records a CD using the Peak Search Function	15

General Information

Remote Control Operations —quick reference—	16
Concerning Compact Discs	18
Technical Specifications	18
Troubleshooting Guide	19
Maintenance	19
Product Service	19

CAUTION!

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPLIANCE TO RAIN, SPLASHING, DRIPPING OR MOISTURE.

CAUTION:

TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

The model number and serial number of this product can be found on either the back or the bottom of the unit. Please note them in the space provided below and keep for future reference.

MODEL NUMBER _____

SERIAL NUMBER _____

THE FOLLOWING APPLIES ONLY IN THE U.S.A.

CAUTION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Precautions

Before using this unit please read these operating instructions carefully. Take special care to follow the warnings indicated on the unit itself as well as the safety suggestions listed below. Afterwards keep them handy for future reference.

Safety

1. **Power Source**—The unit should be connected to power supply only of the type described in the operating instructions or as marked on the unit.
2. **Polarization**—If the unit is equipped with a polarized AC power plug (a plug having one blade wider than the other), that plug will fit into the AC outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
3. **Power Cord Protection**—AC power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Never take hold of the plug or cord if your hand is wet, and always grasp the plug body when connecting or disconnecting it.
4. **Nonuse Periods**—When the unit is not used, turn the power off. When left unused for a long period of time, the unit should be unplugged from the household AC outlet.

Installation

Environment

1. **Water and Moisture**—Do not use this unit near water—for example, near a bathtub, washbowl, swimming pool, or the like. Damp basements should also be avoided.
2. **Condensation**—Moisture may form on the lens in the following conditions...
 - immediately after a heater has been turned on.
 - in a steamy or very humid room.
 - when the unit is suddenly moved from a cold environment to a warm one.If moisture forms inside this unit, it may not operate properly. To correct this problem, turn on the power and wait about one hour for the moisture to evaporate.
3. **Heat**—The unit should be situated away from heat sources such as radiators and the like. It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).

Placement

1. **Ventilation**—The unit should be situated so that its location or position does not interfere with its proper ventilation. Allow 10 cm (4") clearance from the rear of the unit.
2. **Foreign Material**—Care should be taken so that objects do not fall into and liquids are not spilled into the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration, or shock.
3. **Magnetism**—The unit should be situated away from equipment or devices that generate strong magnetic fields.
4. **Stacking**—Do not place heavy objects, other than system components, on top of the unit.
5. **Surface**—Place the unit on a flat, level surface.
6. **Carts and Stands**—The unit should be used only with a cart or stand that is recommended by the manufacturer. The unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart combination to overturn.
7. **Wall or Ceiling Mounting**—The unit should not be mounted to a wall or ceiling, unless specified in this operating instructions.



Maintenance

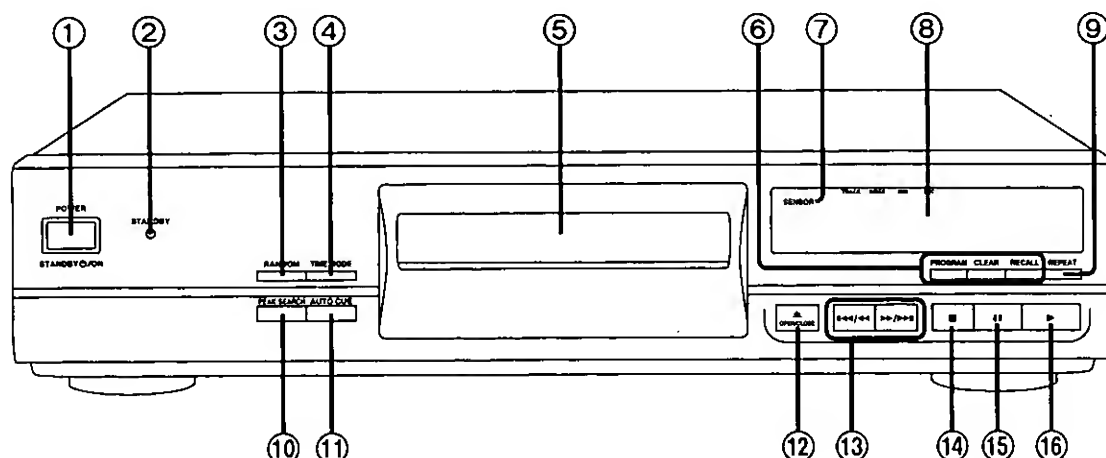
Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution.



Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene.




Service

1. **Damage Requiring Service**—The unit should be serviced by qualified service personnel when:
 - (a) The AC power supply cord or the plug has been damaged; or
 - (b) Objects have fallen or liquid has been spilled into the unit; or
 - (c) The unit has been exposed to rain; or
 - (d) The unit does not appear to operate normally or exhibits a marked change in performance; or
 - (e) The unit has been dropped, or the enclosure damaged.
2. **Servicing**—The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to an authorized service personnel. (Only for U.S.A.)
Call 1-800-211-7262 for the address of an authorized factory servicenter.

Front Panel Controls



No.	Name	Ref. page
①	Power "STANDBY /ON" switch (POWER, STANDBY )	7
	Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.	
②	Standby indicator (STANDBY)	
	When the unit is connected to the AC main supply, this indicator lights up in standby mode and goes out when the unit is turned on.	
③	Random play button (RANDOM)	9
④	Time mode select button (TIME MODE)	14
⑤	Disc tray	7
⑥	Program play buttons	
	•Program button (PROGRAM)	10
	•Clear button (CLEAR)	11
	•Recall button (RECALL)	11

No.	Name	Ref. page
⑦	Remote control signal sensor (SENSOR)	6
⑧	Display panel	
⑨	Repeat button (REPEAT)	12
⑩	Peak search button (PEAK SEARCH)	15
⑪	Auto cue button (AUTO CUE)	13
⑫	Disc tray open/close button ( OPEN/CLOSE)	7
⑬	Skip/Search buttons (/◀, ▶/◀▶)	8
⑭	Stop button ()	7
⑮	Pause button ()	7
⑯	Play button (▶)	7

Connections

Supplied accessories



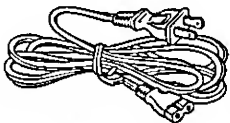
Please check and identify the supplied accessories.

Use numbers indicated in parentheses when asking for replacement parts.

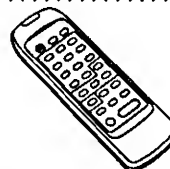
(Only for U.S.A.)

To order accessories call PASC Accessory Dept. 1-800-211-7262.

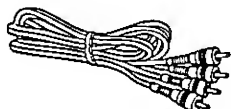
☐ AC power cord 1 pc.
(SJA172)



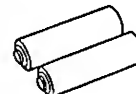
☐ Remote control 1 pc.
(EUR643900)



☐ Stereo connection cable 1 pc.
(SJP2249-3)



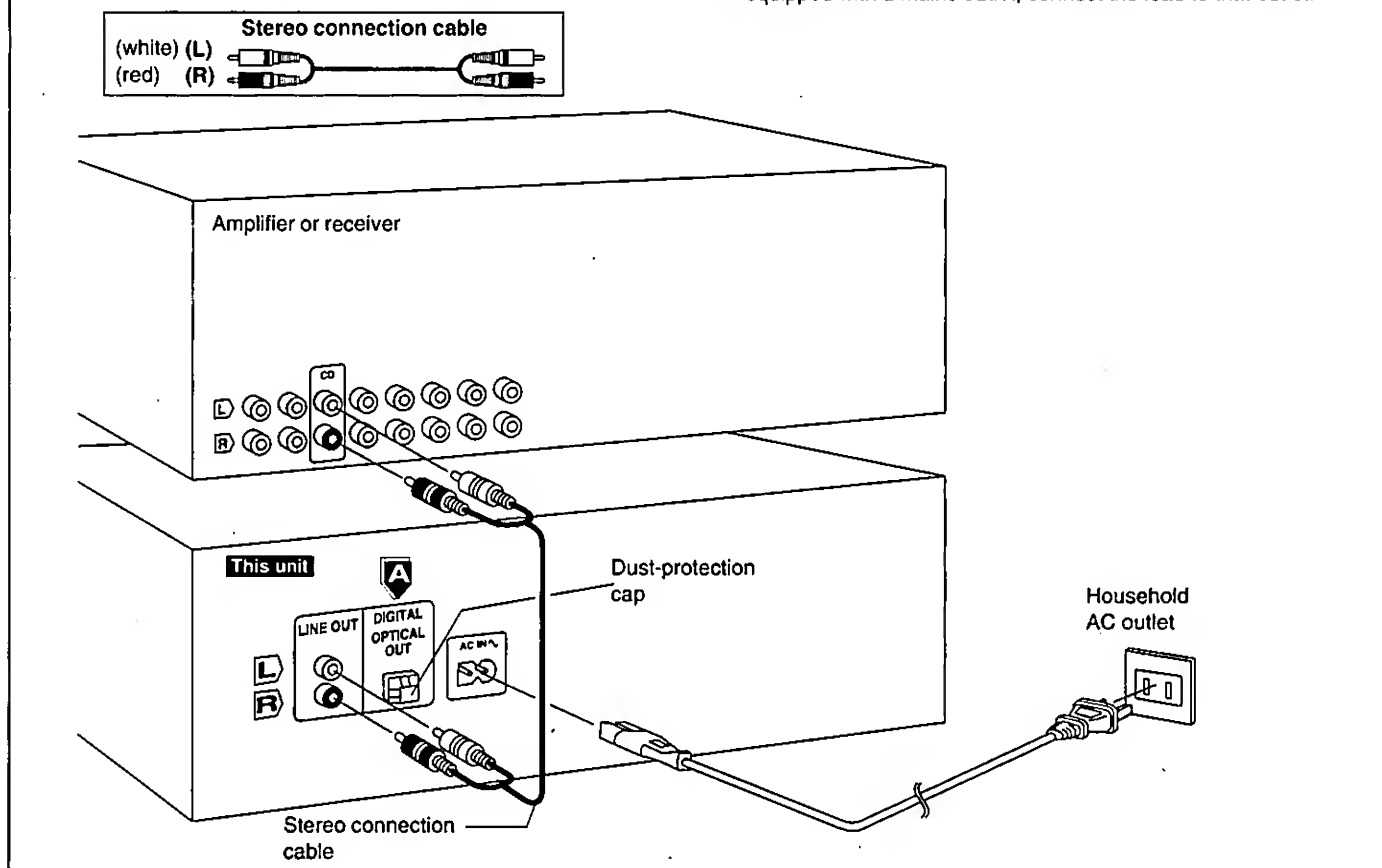
☐ Batteries for remote control 2 pcs.
(R3/LR3, AAA, UM-4)



Before making connections, be sure that the power of this unit and all other system components is first turned off.

Note

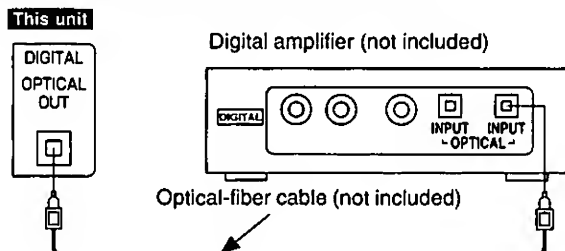
Although the figure below shows the AC power cord being connected to a household AC outlet, if the amplifier (or receiver) is equipped with a mains outlet, connect the lead to that outlet.



A To connect a digital amplifier, etc.:

Note

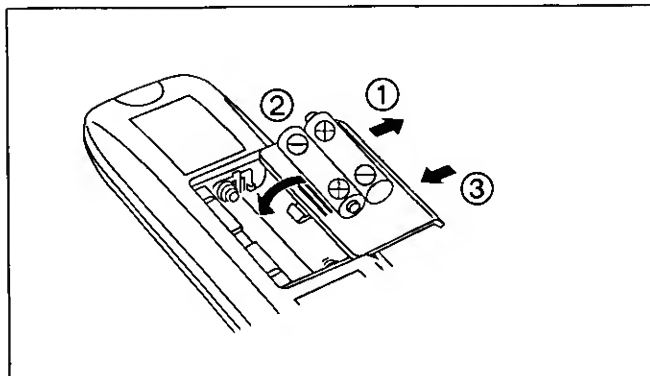
Remove the dust-protection cap from the DIGITAL OPTICAL OUT terminal only when you connect to the digital amplifier, etc. When this terminal is not being used, attach the cap as shown in the illustration above.



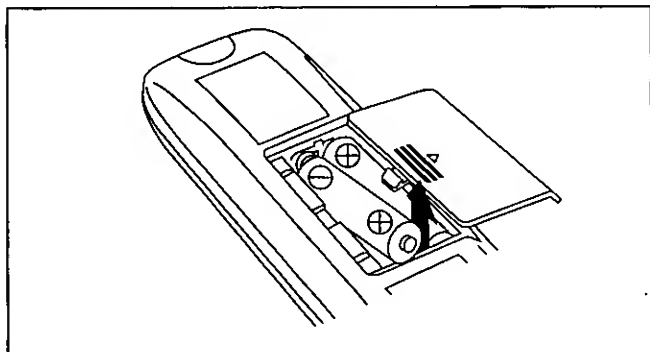
Concerning the Remote Control

Battery installation

Insert the batteries observing the correct polarities (\oplus , \ominus).



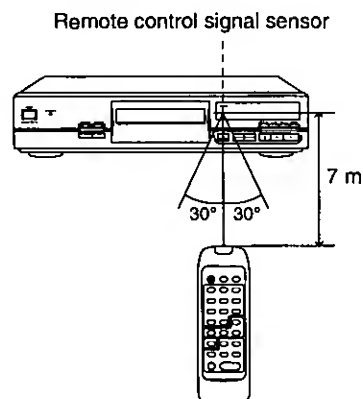
To remove the batteries, pull out the \oplus side.



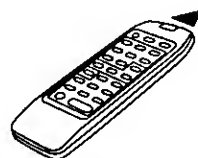
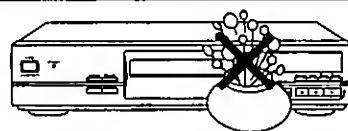
Use of batteries

- Do not use rechargeable type batteries.
- Do not mix old and new batteries, or batteries of different types (manganese and alkaline, etc.).
- Always remove old, weak or worn-out batteries promptly and dispose of them properly.
- Never subject batteries to excessive heat or flame; do not attempt to disassemble them, and be sure they are not short-circuited.
- If the remote control is not to be used for a long period of time, remove the batteries and store them in a cool, dark place.
- If a battery leaks, remove all batteries and dispose of them properly.
- Thoroughly clean the battery compartment before inserting new batteries.
- If the electrolyte comes into contact with skin or clothes, flush with water immediately.
- Keep batteries out of reach of children.
- Do not attempt to recharge alkaline or manganese batteries.
- Batteries installed with incorrect polarities may leak and damage the unit.

Correct method of use



Operation notes



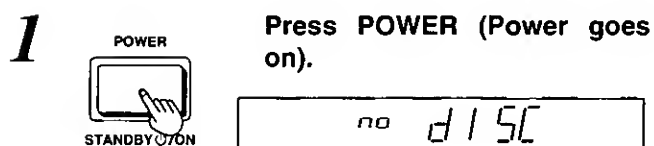
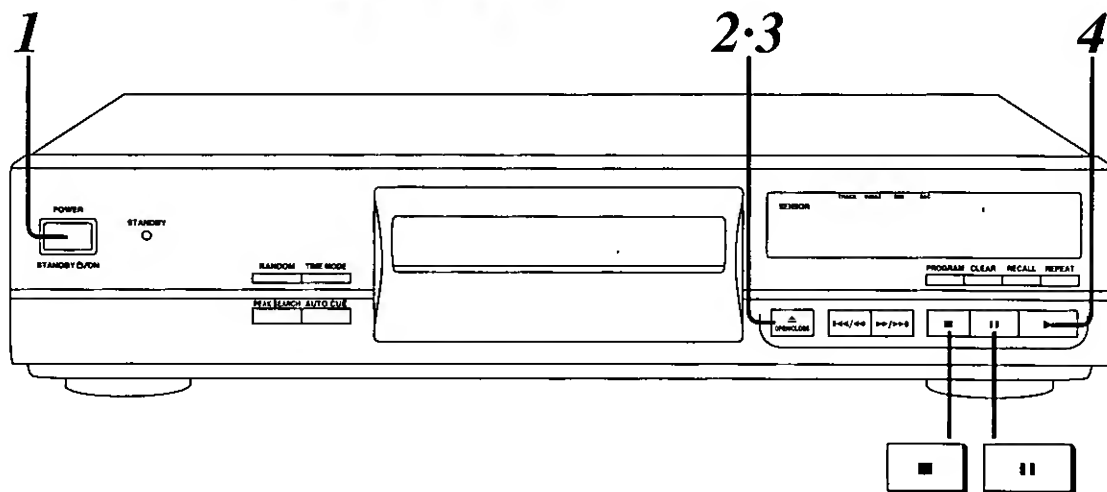
- Aim the remote control's transmission window toward the unit's sensor. Avoid any obstacles.



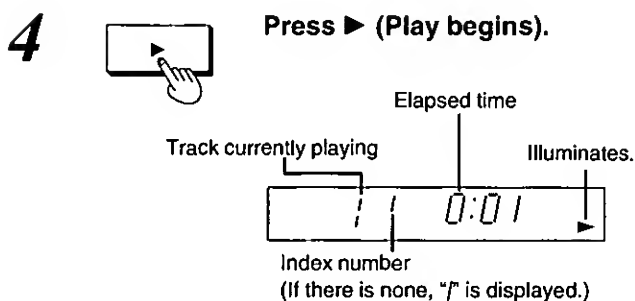
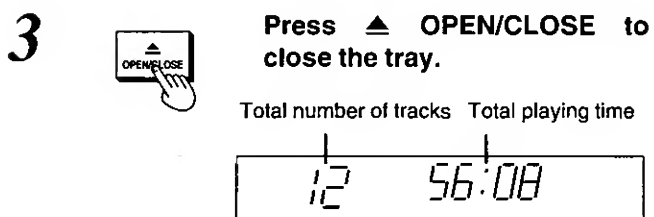
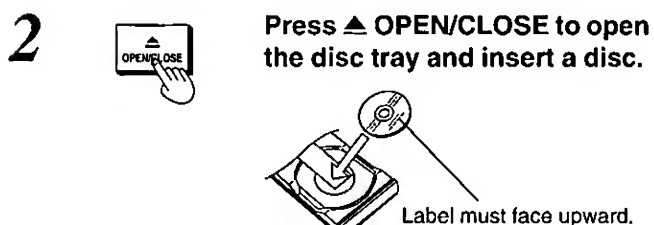
Avoid dust.

- Be sure the transmission window and the unit's sensor are free from dust. Excessive dust might affect its performance.
- The operation may not be correct if direct sunlight or other strong light source strikes the receiving sensor of this unit. If there is a problem, place the unit away from the light source.
- If the unit is installed in a rack with glass doors, the glass doors' thickness or colour might make it necessary to use the remote control transmitter a shorter distance from the unit.
- Never place heavy items on top of the unit.
- Do not disassemble or reconstruct.
- Do not spill water or other liquids into the unit.

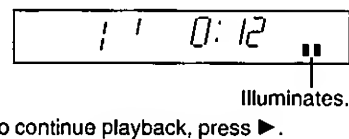
Sequential Play **Basic Play**



- This indicates that a CD has not been installed.
- If a CD is already in the disc tray, it automatically begins playing from the first track.

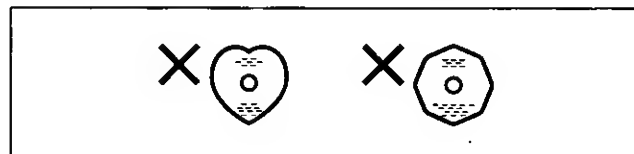


Play stops automatically after all tracks have been played.



Note

- The total displayed playing time includes the time between tracks. For this reason, the time may be several seconds longer than that which appears on song cards and the like.
- Do not use irregular shape CDs (heart-shape, octagonal, etc.).



For your reference:

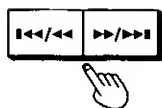
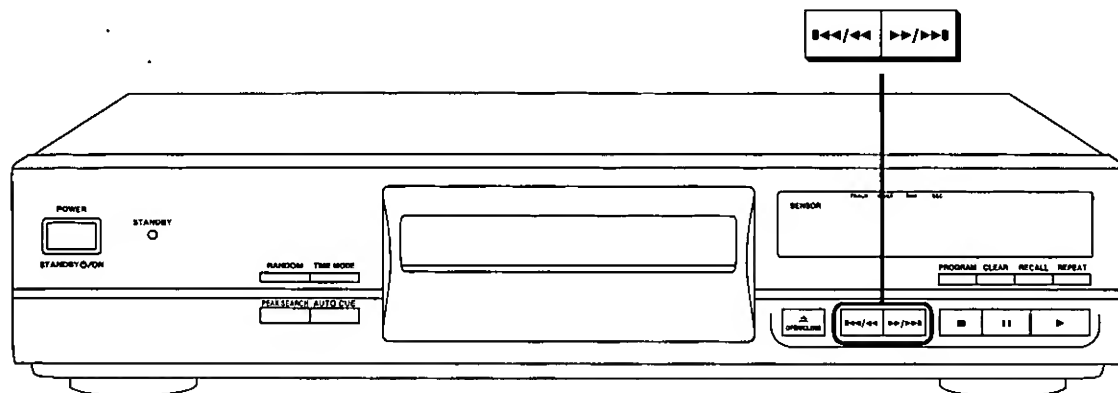
If you skip step 3 and press ►, the tray automatically closes and play begins from the first track.

Skip Function

This function allows you to jump to the beginning of tracks.

Search Function

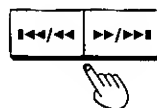
This function allows you to search for a desired location while viewing the time display.



Press either **⏮/⏪** or **⏭/⏩**.

⏭/⏩: To skip forward
You can skip as many tracks as the number of times you press the button.

⏮/⏪: To skip backward
You can skip to the beginning of the track being played. If you press the button again quickly, you can skip to the beginning of the previous track.



While the disc is being played or paused:

Press and hold either **⏮/⏪ or **⏭/⏩**.**

Release the button when you have reached the desired point.

⏭/⏩: To search forward

⏮/⏪: To search backward

Searching proceeds slowly at first and then speeds up if the button is held down.

For your reference:

•During random play (see page 9):

If **⏭/⏩** is pressed, skipping is performed in random order.

If **⏮/⏪** is pressed, disc play skips to the beginning of the track being played, but skipping to previous tracks is not possible.

•During program play (see page 10):

Forward and backward skipping is performed in the programmed track order.

For your reference:

•During random play (see page 9) and program play (see page 10):

Searching can be performed only within the track being played.

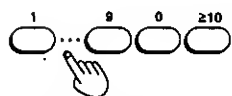
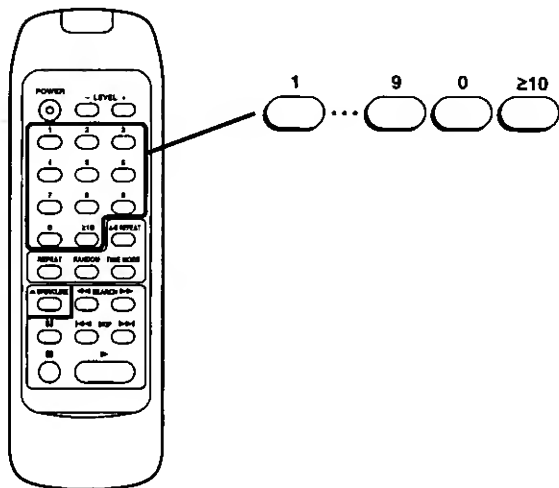
•During A-B repeat (see page 12):

Searching can be performed beyond the A-B segment. (A-B repeat will not be cancelled.)

Direct Access Play

(Available only from the remote control)

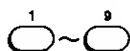
With this function, a disc is played from a desired track to the last track and then stops automatically.



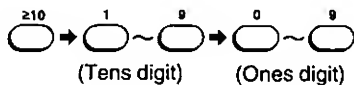
Press the numeric buttons.
Play will begin from the selected track number.

To specify a track number:

1 to 9:

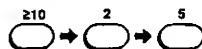


10 or higher:

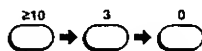


For example:

Specifying track no. 25

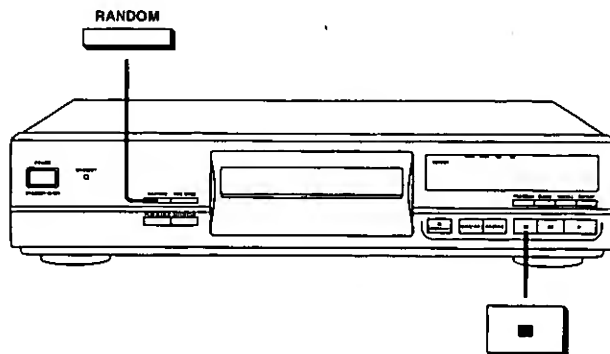


Specifying track no. 30



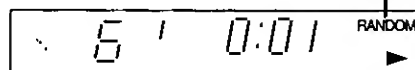
Random Play

With this function, all tracks on a disc are played one time each in random order, and then play stops automatically.



Press RANDOM.

Illuminates.



Random play is cancelled when play is stopped.

To switch back to playback in the original track order:



While the disc is playing:

Press RANDOM.

The disc will be played from that point until the end and then stop automatically.

To cancel random play:

Press ■.



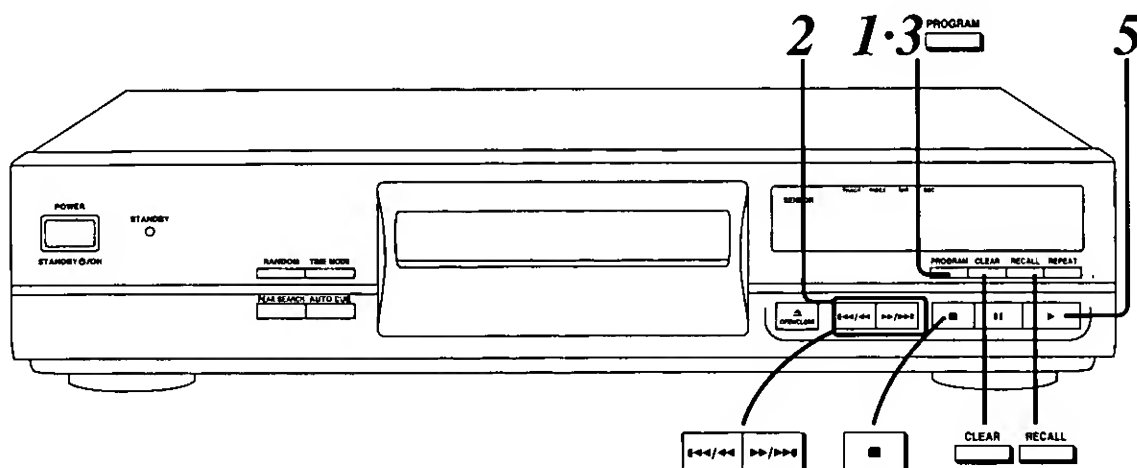
For your reference:

During program play (see page 10):

The programmed tracks are played in a random order.

Program Play

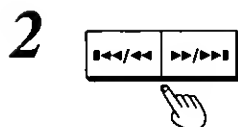
With this function, you can program up to 20 tracks in any order you like.



While the disc is stopped:
Press PROGRAM.

If the button is pressed while the disc is playing, that track is programmed as the first.

Illuminates.



Press <<</<< or >>>/>> to specify the desired track number.

For example:

To specify track no. 3, press >>>/>> 3 times.



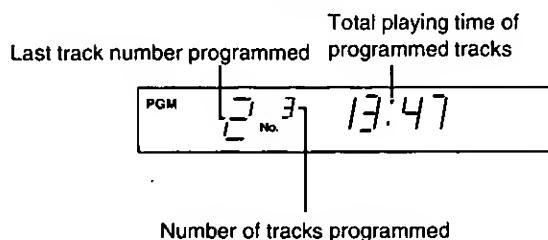
Press PROGRAM.

4

Repeat steps 2 and 3 until you have completed the desired entry.

If you make a mistake when pressing a track number, press CLEAR.

For example, if you specify tracks 5, 3 and 2 in that order:



Number of tracks programmed



Press ▶.

Tracks are played in the programmed order, and then play stops automatically. Program contents are stored even after playback ends.

To play the same program contents again, press ▶.

To switch back to playback in the original track order:



While the disc is playing:

Press PROGRAM.

The program contents will also be erased.

The disc is played from that point until the end and then stops automatically.

To cancel program mode:



While the disc is stopped:

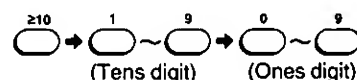
Press ■.

If the disc is playing, press the button twice.

To specify a track number with the remote control:
1 to 9:

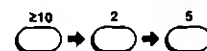


10 or higher:

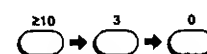


For example:

Specifying track no. 25



Specifying track no. 30



Note

Step 3 is not necessary when using the remote control.

Checking program contents

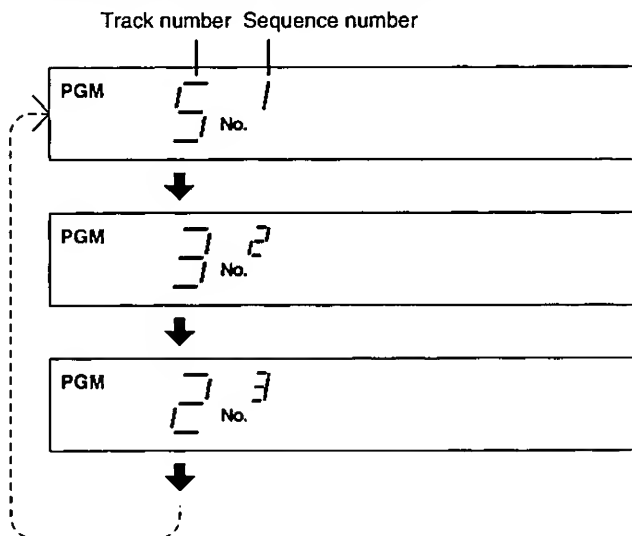


Press RECALL.

Each time the button is pressed, a track number and sequence number are displayed.

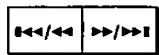
You can also check the program contents during play.

For example, if you specify tracks 5, 3 and 2 in that order:



After about four seconds, the original display appears again.

To program additional tracks



While the disc is stopped:

Press **◀◀/▶▶** or **▶▶/▶▶** and then press PROGRAM.



To erase programmed tracks

To erase the last programmed track:

While the disc is stopped:

Press CLEAR.

One track is erased each time the button is pressed.



To erase a track within the program:



Press RECALL to display the track to be erased, then press CLEAR to erase it.

(Track currently playing cannot be erased)

To erase all tracks and re-program:



While the disc is stopped:

Press PROGRAM twice and repeat steps 2-4 on page 10.

For your reference:

"-F" appears on the display:

When 21 tracks have been specified (no further programming is possible)

"--:--" appears on the display:

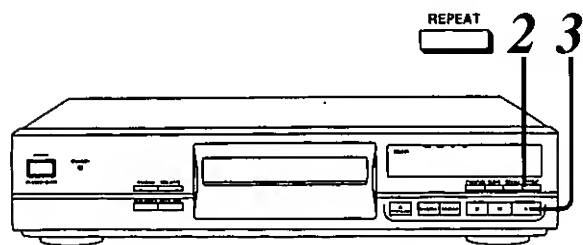
- When the total playing time of the programmed tracks exceeds 99 minutes and 59 seconds

- When a track numbered 21 or higher is specified

In these instances, the total playing time will not be displayed, but up to 20 tracks can be programmed.

Repeat Function

All tracks or programmed tracks are repeated.

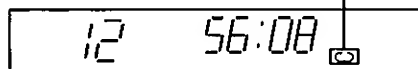


To repeat all tracks

Press REPEAT.



Illuminates.



To repeat a particular track or tracks

1

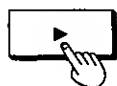
Program the track numbers.
Perform steps 1–3 on page 10.

2



Press REPEAT.

3



Press ► to start playback.

To cancel repeat:

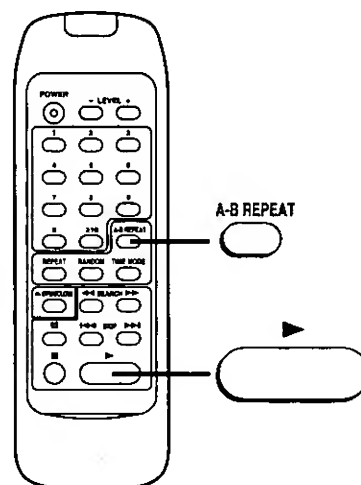
Press REPEAT.



Repeating a segment (A-B repeat)

(Available only from the remote control)

While a disc is playing, if you specify a start point (point A) and an end point (point B), that segment is repeated.



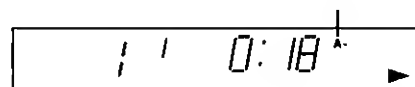
1



While the disc is playing:

Press A-B REPEAT at the desired start point (point A).

Illuminates.



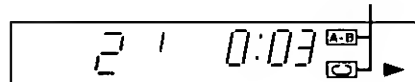
2



Press A-B REPEAT at the desired end point (point B).

The segment between A and B is played repeatedly.

Illuminates.



To cancel A-B repeat:

Press A-B REPEAT.



Note

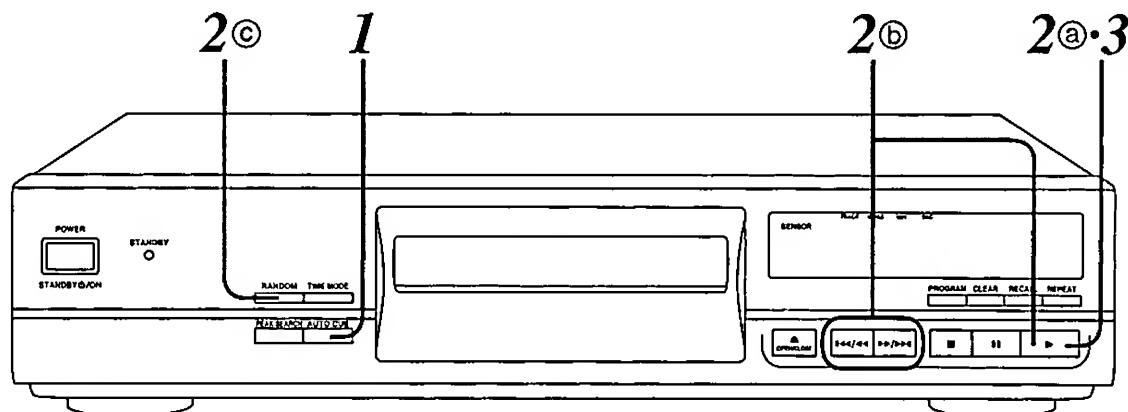
A-B repeat is not possible during random play (see page 9) and program play (see page 10).

For your reference:

- If you press ► during A-B repeat, playback returns to point A.
- If you only specify point A, playback will still return to point A if you press ► at any point.

Auto Cue Function

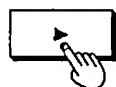
With this function, playback is paused at the beginning (where sound can be heard) of all tracks, one track at a time.



1 **PRESS AUTO CUE.**
 Illustrates the **AUTO CUE** button being pressed. The display shows **12** and **56:08**.
2c **Press AUTO CUE.**
 Illustrates the **AUTO CUE** button being pressed. The display shows **12** and **56:08**.
 If the disc is playing, playback pauses at the beginning of the next track.

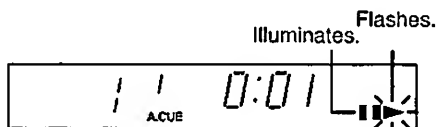
2 Select the track to be played.

a To play from the first track

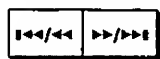


Press 1.

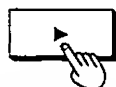
You can also play the disc in any order you like. (See page 10.)



b To play from a desired track



Press 1-6 or 7-8 and then press 1.



c To play in random order



Press RANDOM.
 (See page 9.)

The unit switches to the play standby mode.

3 **Press 2 to start playback.**
 Sound can be heard immediately.
 To play tracks successively, press 2 for each track.

To cancel auto cue:



While the disc is playing:

Press AUTO CUE.

If AUTO CUE is pressed during play standby mode, the unit switches to pause mode.

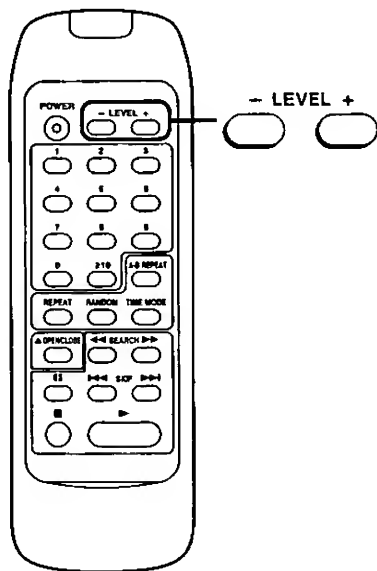
Note

This function may not work properly on tracks which have soft sounds at the beginning, or tracks which have large amounts of noise, etc.

Output Level Control

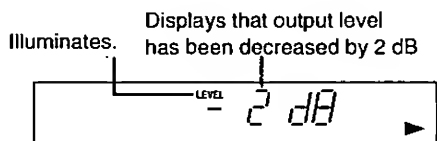
(Available only from the remote control)

Rather than adjusting the volume level of the amplifier, you can temporarily make the sound lower by decreasing the output of the CD player.



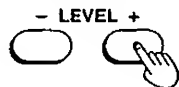
Press - LEVEL.

Decrease the output level in 2 dB intervals from 0 dB (normal sound level) to -12 dB.



After about two seconds, the original display appears again.

To increase the output after it has been decreased:

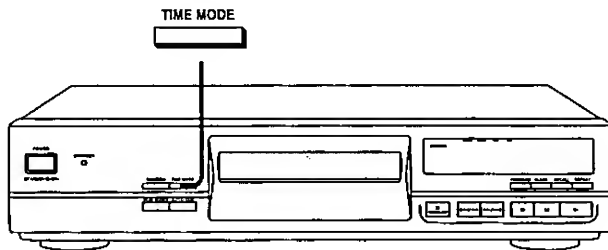


Press LEVEL +.

For your reference:

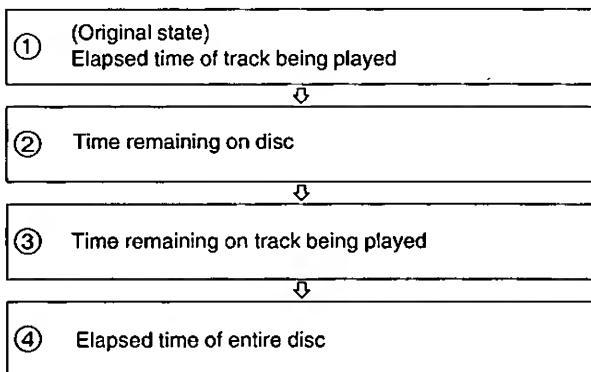
If the unit is turned off and then turned on again, the output level returns to 0 dB (normal sound level).

Time Mode Selection



While the disc is playing or paused: Press TIME MODE.

Each time the button is pressed, the display switches in the following order.



If playback is stopped and then started again, the display returns to its original state.

For your reference:

The following exceptions exist:

•During playback of track numbered above 20;

Display ③ appears as ---:--.

•During program play (see page 10);

Time for programmed tracks only appears for displays ② and ④.

When playing track number above 20, displays ② and ③ appear as ---:--.

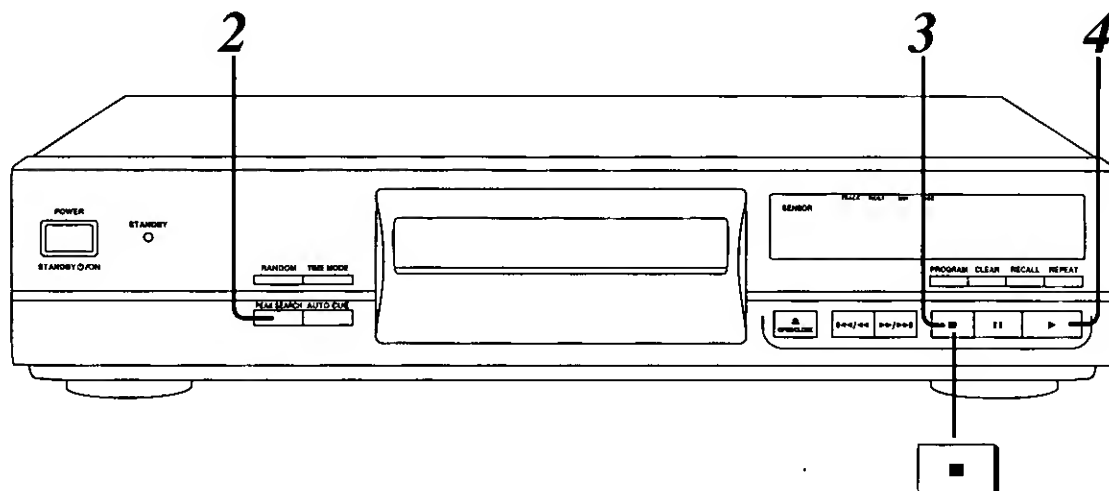
•During random play (see page 9);

Display ② appears as ---:--., and display ④ as ---:--.

Records a CD using the Peak Search Function

This function searches for the peak level on a disc.

This is convenient to adjust the recording level on the cassette deck when recording.



1

Prepare the cassette deck.

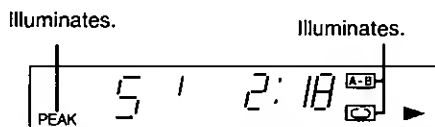
1. Wind the leader and insert the tape.
2. Select noise reduction.
3. (Double-side playback deck only)
Set the reverse mode to single side playback (→), and set the running direction of the tape to ►.
4. Set the cassette deck to recording standby mode.
(For details, refer to the operating instructions for the cassette deck.)

2



Press **PEAK SEARCH** to search for the peak level on the disc, and adjust the recording level on the cassette deck.

Searching for the peak level takes about 2 minutes and 30 seconds for a 60 minute CD. When the peak level is found, the unit repeatedly produces the sound for about 6 seconds around the peak level.



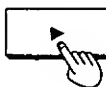
Regarding the recording level adjustment procedure, refer to the operating instructions for the cassette deck.

3



Press ■.

4



Press ► at the same time you begin recording on the cassette deck.

The first song recorded on side B and the recording of the cassette deck start at the same time when recording side B.

To stop recording:



Press ■.

For your reference:

Peak level:

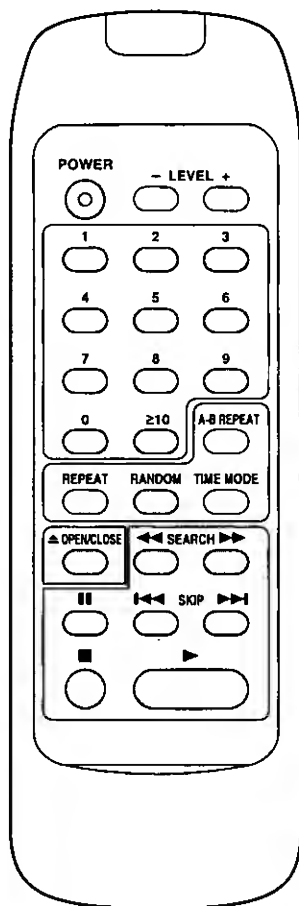
Since multiple peaks exist on compact discs, even for the same disc a different peak level may be found each time a peak search is performed.

To operate the **PEAK SEARCH** function during program recording:

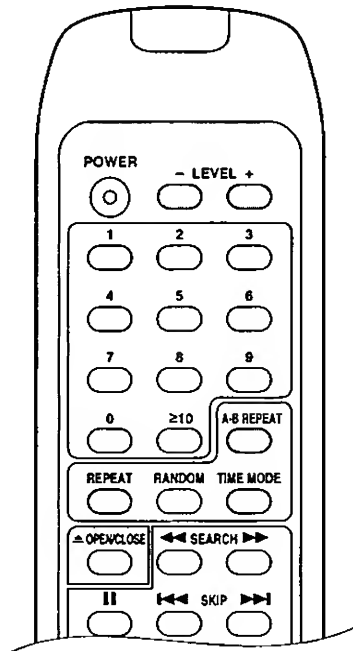






1. Perform step 1 described above.
2. Perform steps 1-4 on page 10.
3. Perform steps 2-4 described above.

Remote Control Operations

—quick reference—



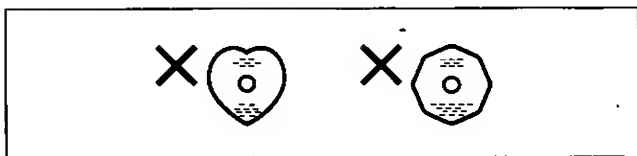
Operations	
Switch the unit on and power standby mode (See page 7.)	POWER
Open/close tray (See page 7.)	△ OPEN/CLOSE
Start play (See page 7.)	
Pause play (See page 7.)	
Stop play (See page 7.)	
Skip tracks (See page 8.)	 (Skip reverse) (Skip forward)
Search forward or backward (See page 8.)	 (Fast backward) (Fast forward)
Play from a desired track (See page 9.)	1 ... 9 0 ≥10
Play in random order (See page 9.)	RANDOM

<i>Convenient functions</i>		
	Repeat all tracks or programmed tracks (See page 12.)	<p>REPEAT</p> 
	Repeat a specified segment (See page 12.)	<p>A-B REPEAT → A-B REPEAT</p>  
	Decrease/increase output level (See page 14.)	<p>- LEVEL +</p>  
	Switch the time display (See page 14.)	<p>TIME MODE</p>  <p>Elapsed time of track being played ↓ Time remaining on disc ↓ Time remaining on track being played ↓ Elapsed time of entire disc</p>

Concerning Compact Discs

Only compact discs having this mark can be used with this unit.

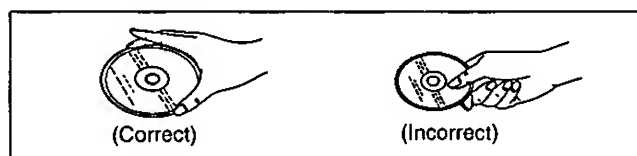
However, do not use irregular shape CDs (heart-shape, octagonal, etc.). CDs of the sort can damage the unit.



To hold the disc

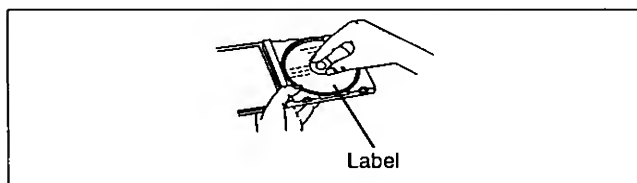
Hold the disc by the edges so the surface is not soiled with fingerprints.

Fingerprints, dirt and scratches can cause skipping and distortion.



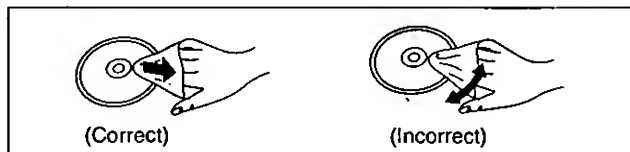
To store a disc in its case

Insert the disc with label facing upwards and press downward at the center.



If the surface is soiled

Wipe gently with a soft, damp (water only) cloth.



If the disc is brought from a cold to a warm environment, moisture may form on the disc

Wipe this moisture off with a soft, dry, lint-free cloth before using the disc.

Improper disc storage:

You can damage discs if you store them in the following places:

- Areas exposed to direct sunlight
- Humid or dusty areas
- Areas directly exposed to a heat outlet or heating appliance

Handling precautions:

- Do not write on the label side with a ball-point pen or other writing utensils.
- Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to CDs. (Do not use CDs with exposed adhesive from tape or left over peeled off stickers.)
- Do not use scratch-proof protectors or covers other than those specified for use with this unit.

Technical Specifications

Audio

No. of channels	2 (left and right, stereo)
Frequency response	2-20,000 Hz, ± 1 dB
Output voltage	2.0 V (at 0 dB)
Dynamic range	92 dB
S/N	100 dB
Harmonic distortion	0.005% (1 kHz, 0 dB)
Total harmonic distortion	0.007% (1 kHz, 0 dB)
Wow and flutter	Below measurable limit
DA converter	MASH (1 bit)
Output impedance	1 k Ω
Load impedance	More than 10 k Ω

Pickup

Wavelength	780 nm
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General

Power supply	AC 120 V, 60 Hz
Power consumption	10 W
Dimensions (W×H×D)	430×92×283 mm (16 ¹⁵ / ₁₆ "×3 ⁵ / ₈ "×11 ⁵ / ₃₂ "
Weight	3.1 kg (6.8 lb.)

Note:

Specifications are subject to change without notice.
Weight and dimensions are approximate.

MASH is a trademark of NTT.

Troubleshooting Guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your dealer for instructions.

(In U.S.A. consult PASC Authorized Servicenters for detailed instructions or call 1-800-211-7262 for the address of an authorized factory servicenter.)

Problem	Probable cause(s)	Suggested remedy	Page
After inserting a disc, the tray will not close even after pressing △ OPEN/CLOSE .	Is the disc inserted properly?	Re-insert the disc.	7
Even after inserting a disc, the total number of tracks and other indicators do not appear on the display. Even after pressing ▶ , disc playback does not begin.	Is the disc inserted upside-down?	Install the CD with the label facing up.	7
	Is the disc dirty?	Wipe with a soft cloth.	18
	Is the disc scratched?	Use another disc.	
	Is the disc extremely warped?		
	Are you using a non-standard disc?		
	Has there been a sudden change in temperature? For instance, was the unit brought straight from a cold place into a warm location?	Condensation may have formed on the lens unit. Leave it for about an hour before attempting operation again.	
Specific areas do not play properly.	Is the disc dirty?	Wipe with a soft cloth.	18
There is noise from the tuner or disturbance on the TV screen.	Caused by high-frequency signals of this unit.	●Use the unit farther away from the tuner or TV. ●If the tuner's or TV's antenna is the indoor type, use an outdoor one.	
The remote control does not work.	Are the batteries inserted with the ⊕ and ⊖ ends reversed?	Insert with the ⊕ and ⊖ oriented correctly.	6
	Are the batteries worn out?	Replace batteries. (AAA type only)	6

Maintenance

Wipe this unit with a soft cloth.

If the surfaces are extremely dirty, wipe clean with a cloth which has been dipped in a weak soap-and-water solution and wrung out thoroughly, and then wipe again with a dry cloth.

- Do not use alcohol, thinners, etc.
- When using chemically treated cloths, refer to the explanations provided with them.

About moisture

Moisture may form on the lens in the following cases...

- Immediately after a heater has been turned on.
- In a steamy or very humid room.
- When the unit is suddenly moved from a cold environment to a warm one.

Product Service

Do not attempt to remove the cover(s) or repair the unit yourself. Refer servicing to qualified personnel only.

Product information

For product service, product information or assistance with product operation, refer to the servicenter directory.

User memo:

DATE OF PURCHASE _____
DEALER NAME _____
DEALER ADDRESS _____
TELEPHONE NUMBER _____

**Panasonic Consumer Electronics
Company, Division of Matsushita
Electric Corporation of America**
One Panasonic Way Secaucus,
New Jersey 07094

**Panasonic Sales Company,
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Ave. 65 de Infantería, Km. 9.5
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